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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,498	03/20/2006	Lingamallu Jagan Mohan Rao	74670/JPW/JW	2413
23432 COOPER & D	7590 10/29/200° UNHAM. LLP	EXAMINER		
1185 AVENUE	E OF THE AMERICAS	CHEN, CATHERYNE		
NEW YORK, NY 10036			ART UNIT	PAPER NUMBER
			1655	
			MAIL DATE	DELIVERY MODE
			10/29/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/539,498	RAO ET AL.			
		Examiner	Art Unit			
	•	Catheryne Chen	1655			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wit	h the correspondence address			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAIS nations of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing end patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re vill apply and will expire SIX (6) MONT cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status						
·	Responsive to communication(s) filed on 17 Au					
•—	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
-	closed in accordance with the practice under £	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) 1-3 and 6 is/are pending in the applicated 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-3, 6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicat	ion Papers		,			
, —	The specification is objected to by the Examine					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·				
Priority (under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Aprity documents have been in (PCT Rule 17.2(a)).	oplication No received in this National Stage			
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) cmation Disclosure Statement(s) (PTO/SB/08) cer No(s)/Mail Date	Paper No(s)	ummary (PTO-413))/Mail Date formal Patent Application			

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DETAILED ACTION

The Amendments filed on Aug. 17, 2007 has been received and entered. Currently, Claims 1-3, 6 are pending. Claims 1-3, 6 are examined on the merits. Claims 4-5, 1-12 are canceled.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-3, 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 1, what is meant by a "column?" What type of column?

Response to Arguments

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-3, 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tachibana (J. Agric.Food Chem. 2001, 49: 5589-5594) and Stogniew et al. (US 2002/0061339 A1) for the reasons set forth in the previous Office Action. All of Applicant's arguments regarding this ground of rejection have been fully considered but are not persuasive. Applicant argues that the references do not teach the specific processes for processing the Indian curry leaves.

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Tachibana et al. teaches Murraya koenigii to isolate carbazole alkaloids a major class of antioxidant produced (page 5589, Introduction) from air-dried and dried leaves extracted with 70% aqueous acetone at room temperature for overnight. (page 5590, Extraction and Isolation). Stogniew et al. teaches typical extract process for Rutaceae plant of which Indian curry leaves is a species, ground into a powder and extracted with any suitable solvent and extracted for about 8 hours to about 48 hours (paragraph 0068), solvent to powder ratio of about 4:1 to about 7:1 by volume (paragraph 0071), vacuum dried at room temperature (paragraph 0070). It would have been obvious to one in the ordinary skill in the art, whether the leaves are "dried" for powdering purposes. The duration and temperature of the drying process would depend on the amount of leaves and the condition of the leaves. The more moisture the leaves contained, then the more time and higher temperature would be needed to dry them. As to the use of a column, the specification on page 6 only indicated that it is a "glass" column. In acetone extractions, one does not use a "column," as in the meaning of a chromatography or exchange column. The extraction that is described in Claim 1 c is an extraction that depends on phase separation, which uses gravity to separate out the hydrophobic and hydrophilic phases. The more fine the powder, the more contact surfaces are exposed to the solvent. Thus one can use less solvent to efficiently extract the compound. If the powder were not as fine, then one would use less solvent to extract because there are less contact surfaces.

The references also do not specifically teach extracting the antioxidants in the steps claimed by applicant. The extracting of a specific antioxidant is clearly a result

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effective parameter that a person of ordinary skill in the art would routinely optimize.

"[W]here the general conditions of a claim are disclosed in the prior art, it is not inventive to discover the optimum or workable ranges by routine experimentation." In re Aller, 220 F.2d 454, 456, 105 USPQ 233, 235 (CCPA 1955). Thus, optimization of general conditions is a routine practice that would be obvious for a person of ordinary skill in the art to employ. It would have been customary for an artisan of ordinary skill to determine the optimal step of each extraction steps in order to best achieve the desired results. Thus, absent some demonstration of unexpected results from the claimed parameters, this optimization of process steps would have been obvious at the time of applicant's invention.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Catheryne Chen whose telephone number is 571-272-9947. The examiner can normally be reached on Monday to Friday, 9-5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on 571-272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Catheryne Chen Patent Examiner Art Unit 1655

/Susan Hoffman/ Primary examiner, Art Unit 1655 October 22, 2007